

**ERRATA**  
**38th Lunar and Planetary Science Conference**  
**March 12–16, 2007**

---

Sunday, March 11, 2007

**Canceled Display**

**Open House Education and Public Outreach Displays:**

**Accessing the Solar System Through Educational Products**

Croft S. K. Garmany K. Pompea S. M.

*ARBSE: A New Educational Resource in Astronomy and Space Science* [#1803]

Demonstration of instructional materials and data for four student research projects in astronomy and space science extensively tested in the classroom, and recently made available to the general public.

Monday, March 12, 2007

**Change of Session Chair**

8:30 a.m.

**Planetary Differentiation: Mantles and Cores**

Chairs: L. T. Elkins-Tanton and D. B. Dingwell

**Change of Speaker**

9:15 a.m.

**Planetary Differentiation: Mantles and Cores**

Melosh H. J. Rubie D. C.\*

*Ni Partitioning in the Terrestrial Magma Ocean: A Polybaric Numerical Model* [#1593]

The differentiation of iron metal from molten silicate in the early earth is studied with a novel numerical technique. We find that the Ni abundance in the magma ocean is controlled by partition at high pressure and temperature.

**Change of Speaker**

10:15 a.m.

**Planetary Differentiation: Mantles and Cores**

Ertel W. Dingwell D. B.\*

*Experimentally Determined Solubilities of the HSE Re, Os, Pt, and Rh Applying the Mechanically Assisted Equilibration Technology* [#2046]

We present experimental results on the metal/silicate partitioning behaviour of Re, Os, Pt and Rh applying the mechanically assisted equilibration technique. Results indicate addition of a late chondritic veneer after core formation had seized.

**Change of Speaker**

11:15 a.m.

**A, B, Cs of CAIs**

Fagan T. J. Krot A. N.\* Kobayashi S. Yurimoto H.

*Correlation Between Texture and Oxygen Isotopic Systematics in CAIs from Acfer 094* [#1252]

Acfer 094 CAIs are generally  $^{16}\text{O}$ -rich. However, SIMS analysis and SCAPS imaging of one CAI with a diopside rim indicate that the rim formed in a  $^{16}\text{O}$ -poor setting, implying stages of petrogenesis in distinct isotopic environments in the solar nebula.



Tuesday, March 13, 2007

**Canceled Poster**

**Volcanism and Tectonism on Saturnian Satellites**

Porco C. Spitale J. Mitchell C. Dones L. Ingersoll A. West R.

*Enceladus' Jets: Particle Characteristics, Surface Source Locations, Temporal Variability, and Correlations with Thermal Hot Spots* [#2310]

This work reports the first careful attempt to determine the properties of Enceladus' jets — i.e., particle size distributions, altitude profiles, source locations, temporal variability, etc. — in Cassini ISS images, and to correlate the source locations with the hot spots measured by Cassini CIRS.

**Canceled Poster**

**Asteroids/Kuiper Belt Objects**

McFadden L. A. Ebel D. S. Loeffler M. J. Boesenberg J. Baragiola R. A.

*Infrared Spectroscopy of Eucrite Juvinas Under Vacuum: IR Absorption of Water and Organic Species* [#2390]

Laboratory spectra of Juvinas in the IR under controlled environment shows absorptions due to water and C-H species.

Thursday, March 15, 2007

**Change of Speaker**

10:30 a.m.

**Mars Surface Process and Evolution**

Balme M. R. Murray J. B. \* Ackley S. F. Muller J-P. Kim J. R.

*Morphological Evidence for a Sea-Ice Origin for Elysium Planitia Platy Terrain* [#2202]

The origin of platy terrain in Elysium Planitia is controversial with possible formation mechanisms including flood lava plains or as remnants of a frozen sea. We present observations from ongoing mapping West of Cerberus Fossae that suggests a sea ice genesis.

**Change of Poster Topic**

**Presolar/Solar Grains (moved from Interplanetary Dust)**

Jadhav M. Amari S. Marhas K. K. Zinner E. Maruoka T. Gallino R.

*Ca and Ti Isotopic Ratios in High-Density Graphite Grains from Orgueil* [#2256]

We report isotopic analyses (C, N, O, Si, Al-Mg, K, Ca, and Ti) for 44 new high-density graphite grains from Orgueil. Several grains have large Ca and Ti anomalies that indicate a supernova origin. Some grains with extreme Ca and Ti anomalies were also found to be enriched in <sup>13</sup>C.

**Canceled Poster**

**Engaging Student Educators and the Public in Planetary Science**

Croft S. K. Pompea S. M.

*Getting Space Science into the K-12 Curriculum* [#1792]

Description of a practical method for getting space science research into the K-12 classroom, with an ongoing asteroid project as an example.

**Canceled Poster**

**Interplanetary Dust**

Keller L. P. Christoffersen R.

*Irradiation Effects in Forsterite and the Nature of Interstellar Grains: A Coordinated Infrared Spectroscopy and Electron Microscopy Study* [#1995]

Heavy ion irradiation of forsterite destroys crystalline order as measured by electron diffraction, but residual crystalline order is detected by infrared spectroscopy. Implications for interstellar grains and ISM processing are discussed.